To: Alan Titus[atitus@blm.gov] From: Betenson, Matthew

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Object short list.docx

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Thanks for your help!

Matt Betenson

Associate Monument Manager

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PROCLAMATION VALUES

Understanding the History of Humans In the Region

Southern Palute and Navajo Peoples

John Wesley Powell Exploration

Mormon Exploration and Settlement

Historic Trails, Inscriptions

Ghost Towns, Rock Houses, Line Camps

Hole-in-the-Rock Trail
Dance Hall Rock

Geologic Structures, Stratigraphy, and Erosional Features

The Grand Staircase

Paleozoic

An unbroken, well-exposed, sequence of cliffs and plateaus of

through Terliary sedimentary rocks that rise 5,500 feet from the Chocolate Cliffs to the rim of Bryce Canyon. "The most colorful exposed

geologic section in the world." - H.H. Doelling.

The I: pper Parla Region

and

Rugged canyons, natural arches, and "hydrothermal-col/apse" pipes

dikes.

White Cliffs Exposure of more than 1,500 verlical feet of eolian (wind-deposited),

Jurassic Navajo Sandstone.

Vermilion Cliffs

origins.

Jurassic Moenave and Kayenta Formations of near-shore marine

Kaiparowits Plateau Cretaceous, coal-bearing de/talc sequences deposited In a major

depositional basin. Patt of the coal field is burning underground from naturally Ignited fires. The B uml ng Hlls are evidence of past fires.

Straight Cliffs These cliffs are a series of stacked, Cretaceous barrier islands. The

Straight Cliffs are so named because the cliffs themselves mimic the

Cretaceous shoreline.

The Cockscomb An impressive, erosional "hogback" developed along the East Kaibab

monocline. The East Kaibab monocline is the steeply dipping east 1/mb of

the Kaibab anticline.

Circle Cliffs Abreached anticline which exposes sedimentary rocks of the Triassic

Chinle and Moenkopi Formations that contain large, unbroken

petrified logs, uranium minerals, and bitumen deposits.

Waterpocket Fold Along, sinuous geologic fold and erosional expression, similar to The

Cockscomb, comprising the east flank of the Circle Cliffs anticline.

Natural Arches and Bridges

Arch,

Escalante Natural Bridge, Grosvenor Arch, Starlight Arch, Woolsey

Window Wind Arch, Boyington Arch, Phipps Arch, Sunset Arch.

Canyon Exposures Vivid colors of the Escalante Canyons region and elsewhere cause by

Intense erosion and downcutting (no opportunity for soil forming) of the many Mesozoic sedimentary rocks units. These exposures provide

geologists with unobscured views of Earth history.

World-Class Paleontological Sites

Circle Cliffs

Unbroken petrified Jogs up to 30 feet in length are present in the Petrified

Forest Member of the Chinle Formation.

Kaiparowits One of the best, most contlunous records of Late Cretaceous life in the

world. Fossils include mollusks, reptiles (turtles, crocodilians, lizards), dinosaurs, fishes, and mammals. The Kalparowits rocks contain the only

evidence, in our hemisphere, of terrestrial vertebrate fauna from the

Cenomanian through Santonlan (Late Cretaceous) ages.

Although not specifically noted in the Proclamation, many

opportunities for paleonto/oglcal research also exist in formations of

the Permian, Triassic, Jurassic, and Tertiary periods.

Opportunities for Archaeological Research (Ancient Native Americans)

Fremont-Anasazi Occupation

Rock Art Preservation and Reconstruction

Artifact Preservation and

Reconstruction

Monument Wide

Plateau

Opportunities for Biological Research and Discovery

Five Life Zones The life zones range from low-lying desert to coniferous forests

containing a blend of warm and cold desert floras. This rich floristlc region contains a large number of endemic species. Because of its rugged remoteness, the Monument contains many isolated biologic communities (hanging gardens, tinajas, rock crevices, canyon

bottoms, dunal packet communities).

Diverse Soils An array of strata (parent material), exposed in many places, that give

rise to diverse sails that support equally diverse plant communities and their pollinators. These communities offer opportunities to study plant

spec/at/on and community dynamics.

Relict Vegetation Isolated because of topography, many areas contain relatively

undisturbed plant communities - some of which may have existed since the Pleistocene. No Mans Mesa Is an example where pinyon-juniper

communities contain trees as much as 1,400 years old.

Cryptobiotic These crusts contain unique microbiotic communities that stabilize

the highly erodible so/ls of the region.

Crusts Packrat Provide Insight into climate and vegetation over the past 25,000 years.

Middens

Wildlife Diversity

Besides mountain lion, black bear, mule deer, elk, and desert bighorn sheep, the Monument Is home to over 200 species of birds. Wildlife concentrates mainly in the riparian zones of the Paria and Escalante River drainages.

